

Substitute for form 1449A/PTO	Complete if Known				
INFORMATION DISCLOSURE	Application Number	To be assigned			
STATEMENT BY APPLICANTS	Filing Date	Herewith			
	Applicants	Surnilla; Ingram			
(use as many sheets as necessary)	Group Art Unit				
	Examiner Name				
Sheet 1 of 7	Attorney Docket Number	202-0405			

U.S.	PAT	ENT	DO	CUM	ENTS
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EXAMINER INITIAL*	Cite No.	DOCUMENT NUMBER	Kind Code ² (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
		3,696,318		Boyd et al	10-10-72	
		3,969,932		Rieger et al	07-20-76	
		4,033,122		Masaki et al	07-05-77	
		4,178,883		Herth	12-18-79	
		4,251,989		Norimatsu et al	02-24-81	
		4,622,809		Abthoff et al	11-18-86	
		4,854,123		Inoue et al	08-08-89	
***		4,884,066		Miyata et al	11-28-89	
		4,913,122		Uchida et al	04-03-90	
		5,009,210		Nakagawa et al	04-23-91	
		5,088,281		Izutani et al	02-18-92	
		5,097,700		Nakane	03-24-92	
		5,165,230		Kayanuma et al	11-24-92	
		5,174,111		Nomura et al	12-29-92	
		5,189,876		Hirota et al	03-02-93	
		5,201,802		Hirota et al	04-13-93	
		5,209,061		Takeshima	05-11-93	
	1	5,222,471		Stueven	06-29-93	
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		Foreign	Patent Document		•		
EXAMINER INITIAL*	Cite No. 1	Office ³	Number ^A	Kind Code ⁵ (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		DE	196 07 151 C1		Siemens AG	07-10-97	
		EΡ	0 351 197 A2		Johnson Matthey	01-17-90	
		EP	0 444 783 A1		Lucas Industries	09-04-91	

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STATEM	ENT B	Y APP	LICANTS	Filing Date	Herewith		
				Applicants	Sumilla; Ingram		
(use as many :	sheets as	necessary)	Group Art Unit			
				Examiner Name			
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EXAMINER INITIAL*	Cite No. 1	NUM		Kind Code ² (if known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Re Figures Appear
		5,233	3,830		Take	shima et al	08-	10-93	
		5,267	7,439		Raff	et al	12-	07-93	
•		5,270	0,024		Kasa	hara et al	12-	14-93	
		5,272	2,871		Oshi	ma et al	12-	28-93	
		5,325	5,664		Seki	et al	07-	05-94	
•		5,331	1,809		Take	shima et al	07-	26-94	
·		5,335	5,538		Blisc	hke et al	08-	09-94	
		5,357	7,750		Ito et al 10			25-94	
		5,377	7,484		Shim	izu	01-	03-95	
		5,402	2,641		Kato	Katoh et al 04		04-95	
		5,412	2,945		Kato	h et al	05-	09-95	
		5,412	2,946		Oshii	ma et al	05-	09-95	
		5,414	1,994		Culle	n et al	05-	16-95	
		5,423	3,181		Kato	h et al	06-	13-95	
		5,433	3,074		Seto	et al	07-	18-95	
		5,437	7,153		Take	shima et al	08-0	01-95	
		5,448	3,887		Take	shima 09-12-95		12-95	·
		5,450),722		Take	shima et al	09-	12-95	
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		JP	2-207159			Toyota		08-16-90	
		JP	2-30915		1	Toyota		02-01-90	
		JP	2-33408			Toyota		02-02-90	
· · · · · ·		JP	3-135417	-		Matsushita Elec.		06-10-91	
	-	JP	5-106493		† 	Honda		04-27-93	

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					Applicants	Surnilla; Ingram		
(use as many	sheets as	necessa	ry)		Group Art Unit			
					Examiner Name			
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EXAMINER INITIAL*	Cite No. 1	DOCU		Kind Code ² (if known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Re Figures Appear	
		5,472	,673		Goto	et al	12	-05-95		
		5,473	,887		Takes	shima et al	12	-12-95		
		5,473	,890		Takes	shima et al	12	-12-95		
		5,483	3,795	-	Katol	n et al	01	-16-96		
·		5,544	,482		Mats	umoto et al	08	-13-96		
		5,551	,231		Tana	ka et al	09	-03-96		
		5,577,382			Kihar	a et al	11	11-26-96		
		5,595	,060		Toga	i et al	01	-21-97		
		5,598,703			Haml	ourg et al	02	-04-97		
		5,622	2,047		Yama	shita et al	04	-22-97		
		5,655	i,363		Ito et	al	08	-12-97		
		5,657,625 5,693,877 5,713,199			Koga et al 08		08	08-19-97 12-02-97		
					Ohsuga et al	12				
<u></u>					Takeshima et al		02	02-03-98		
		5,715,679			Asan	uma et al	02	-10-98		
		5,724	,808		Ito et	al	03	-10-98		
		5,732	,554		Sasa	ki et al	03	-31-98		
	İ	5,735	,119		Asan	uma et al	04	-07-98		
 	<u> </u>	<u> </u>		F	OREIGN	PATENT DOCUM	ENT	S	<u> </u>	
EXAMINER INITIAL*	Cite No.	Foreign Office	Patent Docum	Kir	d Code ⁵ known)	NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear	
		JP	5-106494	,		Honda		04-27-93		
		JP	5-26080			Mitsubishi Motors	3	02-02-93		
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EXAMINER INITIAL*	Cite No. '	Office ³	Number	Kind Code ⁵ (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		JP	5-106494		Honda	04-27-93	
		JP	5-26080		Mitsubishi Motors	02-02-93	<u> </u>
•		JP	62-117620		Nippon Shokubal	05-29-87	
		JP	6-264787		Nissan Motor	09-20-94	
		JP	62-97630		Nippon Shokubal	05-07-87	

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⁶Tind in the possible of the patent document under WIPO Standard ST. 16 if possible.

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(use as many sheets as necessary)	Group Art Unit			
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EXAMINER INITIAL*	Cite No. ¹	DOCU		Kind Code ²		NAME	T	DATE	Pages, Columns, Lines Where Relevant Passages or F
INITIAL	No.	NUM	3CK	(if known)		NAME		MM-DD-YY	Figures Appear
		5,740	,669		Kinu	gasa et al	04	-21-98	
		5,743	,084	-	Hepb	urn	04	-28-98	
		5,746	,049		Culle	n et al	05-	-05-98	
		5,746	5,746,052			gasa et al	05-	-05-98	
		5,752	,492		Kato	et al	05-	-19-98	
		5,792	,436		Feeley et al		08-	-11-98	,
		5,842	,340		Bush	et al	12-	-01-98	
		5,865	,027		Hana	fusa et al	02-	-02-99	
		5,970	,707		Sawa	da et al	10-	-26-99	
		5,974,793			Kinu	gasa et al	11-	02-99	
	5,983,627			Asik		11.	16-99		
		6,014,859			Yoshizaki et al		01-		
		4,036	5,014		Ariga	1	07-	-19-77	
		4,964,272			Kaya	numa 10-23-90		-23-90	
		5,410	,873		Tash	iro	05-	-02-95	
		5,412	2,945		Kato	h et al	05-	-09-95	
		5,419	,122		Tabe	et al	05-	-30-95	
	†	5,437	',153		Take	shima et al	08-	-01-95	
	L	1		F	OREIGN	PATENT DOCUM	WENT:	s	<u> </u>
		Foreign	Patent Docum						
EXAMINER INITIAL*	No. 1	Office ³	Nu		nd Code ^o known)	NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
		JP	64-53042			Mitsubishi		03-01-89	
		JP	6-58139	•		Nissan Motor		03-01-94	
	\vdash	JP	7-97941		1	Kazuhiro et al		04-11-95	<u> </u>

 		(, , , , , , , , , , , , , , , , , , ,			Relevant Figures Appear
	JP	64-53042	Mitsubishi	03-01-89	
	JP	6-58139	Nissan Motor	03-01-94	
	JP	7-97941	Kazuhiro et al	04-11-95	
 †	EP	0 351 197 A1	Johnson Matthey	01-17-90	
 ┪	EP	0 503 882 A1	S. Takeshima	09-16-92	

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(use as many sheets as necessary)					Group Art Unit		
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EXAMINER INITIAL*	Cite No. 1	NUM		Kind Code ² (if known)		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Re Figures Appear
		5,452	2,576	Ta varonny	Haml	ourg et al	09-26-95	
		5,483	3,795		Katol	h et al	01-16-96	
		5,626	5,014		Hepb	urn et al	05-06-97	
· · · · · · · · · · · · · · · · · · ·	<u> </u>	5,626,117			Wright et al		05-06-97	
		5,713	3,199		Take	shima et al	02-03-98	
		5,715	5,679			uma et al	02-10-98	-
		5,722	2,236		Cullen et al		03-03-98	
	<u> </u>	5,771	1,685		Hepb	urn	06-30-98	· · · · · · · · · · · · · · · · · · ·
		5,771	,686		Pisch	inger et al 06-30-98		
		5,778,666			Cullen et al		07-14-98	
		5,802	2,843	Kuri		ara et al	09-08-98	
		5,803	3,048	Y	Yano	et al	09-08-98	
		5,832	2,722	Culle		n et al	11-10-98	
		5,938	3,715	Hept	g et al 08	08-17-99		
		5,974	1,788		Hepb	pburn et al	11-02-99	
		5,974	1,791		a et al	11-02-99		
	-	5,922	2,142		Pott		11-30-99	
		5,996,338		Hirot		a	12-07-99	
				F	OREIGI	PATENT DOCUM	ENTS	
EXAMINER INITIAL*	Cite No. 1				nd Code ⁵ (known) NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		EP	0 580 389	A1		Toyota	01-26-94	
·		WP	98/27322		 	Ford Motor Co.	06-25-98	
		JP	7-168851			Toyota	06-27-95	
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		6,012,428		Yano	et al	01	-11-00	
		6,023,929		Ma		02-15-00		
		6,058,700		Yamashita et al		05-09-00		
	ļ ·	5,479,898		Cullen et al Surnilla et al		01-	-02-96	
		6,189,316				02-20-01		
		5,497,745		Culle	n et al	03-	-12-96	
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Sheet 7 of 7	Attorney Docket Number	202-0405			

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
EXAMINER INITIAL*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based
		Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way
]	Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS
		REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127.
		ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx in
		Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11.
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage
	Ì	Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships",
)	SAE 800051, February 25-29, 1980.
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst
	{	Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980.
		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic
	l	Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.
		TOSHIAKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction",
		JSAE 882072 - 882166
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